VA Formulary Choices for Pharmacotherapy of Smoking Cessation

	ormulary Choices for Pharmacotherapy of Smoking Cessation Nicotine Nicotine Nicotine polacrilex Buprop				
				Виргоріон	
	Transdermal	polacrilex gum	lozenge		
	Patch				
Trade Name and	Nicoderm/Habitrol	Nicorette Gum	Commit Lozenge	Bupropion SR (Zyban)	
Dose availability	21mg/14mg/7mg	2mg, 4mg	2mg, 4mg	150mg, 300mg tab	
	Nicotrol*				
	15mg/10mg/5mg			Bupropion IR 100mg tab	
Recommended	High Dependence+	High Dependence+	High Dependence†	Bupropion SR (Zyban)	
Regimen	21mg x 4-6wks,	4mg q1-2hrs x6wks,	4mg	150mg qd x 3d then 150mg	
	then 14mg x 2wks,	then q2-4hrs x4wks,	Low Dependence	bid (8 hrs apart)	
	then 7mg x 2wks	then q4-6hrs x2wks	2mg	patients with cirrhosis need adjusted dose: 150mg god	
	Law Danas danas	Law Danandanaa	Cooled Income at Ohm	adjusted dose. Toollig qud	
	Low Dependence 14mg x 6-8wks,	Low Dependence 2mg q1-2hrs x6wks	-Suck 1 lozenge q1-2hrs	Bupropion IR	
	then 7mg x 2wks	then q2-4hrs x3wks	x6wks, then 1 q2-4hrs x3wks, then 1 q4-8hrs x3wks	100mg qd x3d,	
	then mig x zwks	then q4-6hrs x3wks	lileit i q4-oilis x3wks	then 100mg tid	
		then 44 only xowks	-No more than 20	patients with cirrhosis need	
		-No more than 24	lozenges/24hrs or 5	adjusted dose: 75mg qd	
		pieces/24hrs	lozenges/6hrs	adjusted asset formg qu	
Administration	-Usually worn for	-Chew slowly (about 10	-Allow lozenge to dissolve	-start 1-2 wks prior to quitting	
comments	24hrs	chews) until peppery	slowly over 20-30 minutes	smoking (to achieve steady-	
-	(Nicotrol, 16hrs)	taste then "park"	shifting in mouth	state levels)	
	-Apply from neck to	between teeth and gums	occasionally.	-continue treatment for 7-12	
	waist	till taste dissipates.	-Do not chew or swallow	wks (if no progress is made	
	-Rotate sites	Repeat process on and	(increased risk of GI side	by week 7, consider	
	-Takes 2-3d for effect	off for 30mins/piece	effects)	discontinuing therapy)	
	after application of	-Has been studied in		-if insomnia, take PM dose in	
	first patch	combination with patch		afternoon	
1-year Abstinence	16-30%	20-30%	15-20%	10-30%	
rates‡	(dose dependent);			(up to 35% when combined	
	high dose patch: 30%			with patch)	
Time to Peak blood	4-10hrs	15-30 mins	No data on time to peak	3 hours	
concentrations			concentration	(half-life = 21 hrs)	
Absorption	75-90%	30%	30%	20%	
Advantages (+) and	(+)best adherence;	(+) helps prevent	(+)easy to use; discreet;	(+) better compliance; ease of	
Disadvantages (-)	easy to use;	sudden urges; can titrate	higher immediate levels; can	use; can be combined with	
Disauvantages ()	consistent rate of	to adjust for cravings;	titrate to adjust for cravings;	patch; consistent rate of	
	exposure; unobtrusive	oral substitute for	reduces self-reported	exposure; helps with	
	(-)less effective for	cigarettes	withdrawal symptoms	withdrawal symptoms	
	cravings; difficult to	(-)difficult for those with	(-)must abstain from	(-) many drug interactions	
	control titration;	poor dentition or	drinking/eating during	due to metabolism by	
	absorption increased	dentures; must learn	lozenge use	CYP2B6; CNS side effects;	
	at elevated	proper chewing		must be adjusted for hepatic	
	temperatures	technique; must abstain		insufficiency; increased risk	
		from drinking/eating		of seizures	
		during gum use			
Adverse Effects	-sleep disturbances	-local mouth irritation	-local mouth irritation/tingling	-anxiety	
	-local skin irritation	-jaw pain	-heartburn, indigestion,	-disturbed concentration	
	-bone pain	-hiccups	nausea (if chewed)	-dizziness	
	-headache	-dyspepsia	-headache	-insomnia	
	-nausea	-rhinitis	-nausea, diarrhea	-constipation	
		-nausea	-flatulence	-dry mouth -nausea	
				-nausea -seizures (risk 1:1000)	
VA National	None	None	Yes - restricted to patients	None	
Formulary	INOLIG	NONE	who cannot tolerate gum (i.e.	140116	
Restrictions			dentures, missing teeth, TMJ,		
			s/p head and neck surgery)		
VA Cost∥ and	All strengths:	2mg gum:	2mg or 4mg lozenge:	SR:	
Average cost per	\$35.07 / 14patches	\$12.62/50 pieces	\$29.45/72 lozenges	\$0.48/tab	
day based on	\$2.50/patch	\$20.12/110 pieces	\$0.41/lozenge	\$0.96/day	
	avg \$2.50/day	\$0.18-\$0.25/ piece	avg \$5-\$8/day	•	
above regimens	avy \$2.50/day	ψ0.10-ψ0.23/ piece	avg wo worday		
above regimens (avg)	avg \$2.50/day	avg \$2.20-\$6/day	ανή φο φολαάγ	IR:	
	avg \$2.50/day		avg to torday	IR: \$0.28/tab \$0.84/day	

	Nicotine Transdermal Patch	Nicotine polacrilex gum	Nicotine polacrilex lozenge	Bupropion
		\$25.69/110 pieces \$0.23-\$0.27/piece avg \$2-\$6.50/day		
Contraindications/ Relative Contraindications	Relative Contraindica -Hypersensitivity -Pregnancy: Category I -Use within 14 days po -Patients should be adv	Contraindications: -history of seizures -predisposition to seizures (i.e. severe head trauma, CNS tumor, hepatic cirrhosis) -abrupt withdrawal from heavy, daily alcohol or other sedative -MAO inhibitor within 14 days -bulimia, anorexia nervosa Relative Contraindications: -hypersensitvity -pregnancy: category B		

*remove Nicotrol patch at bedtime

‡all NRTs have been shown to double 6-12month abstinence rates compared to placebo

| cost based on FSS or BIG4 pricing as listed on PBM website (http://www.pbm.va.gov/PBM/prices.htm) Accessed: Jan 2006

Note: Two additional prescription products, a nicotine inhaler and nicotine nasal spray, are also FDA approved for nicotine replacement therapy however these products are not available on the VA National Formulary. For more information on these products, visit the American Lung Association Smoking Cessation Support website at: http://www.lungusa.org/site/pp.asp?c=dvLUK9O0E&b=33566

[†]In general, greater than 20 cigarettes per day or use of first cigarette within 30 minutes of awakening is considered high dependence